



ImmunoAssays have been popularized using ELISA technique (Enzyme Linked Immunosorbent Assay), especially using peroxidase (HRP) or alkaline phosphatase (AP) with colorimetric substrates. Interchim offering include not only highly sensitive **colorimetric substrates**, but also **luminescent substrates**, that have spread thanks their incomparable sensitivity, and **fluorescent immunoreagents** that can increase the dynamic range, sensitivity and notably allow for multiplexed analysis.

We finally provide **biotin/streptavidin reagents**, that are recommended to get an amplification of the signal. Additionnally, biotin label is generally more flexible and quicker to calibrate using few labeled streptavidins for many different assays

ELISA - Luminescent detection (ECL)

■ UptiLight ELISA HRP Chemiluminescent Substrate

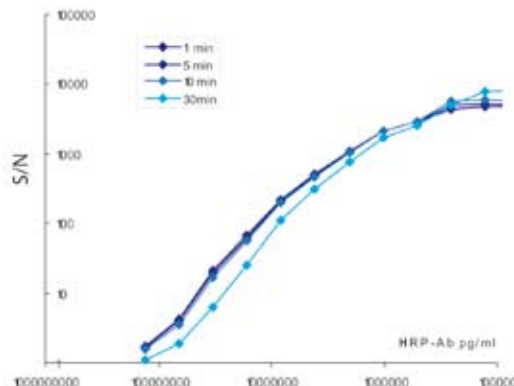
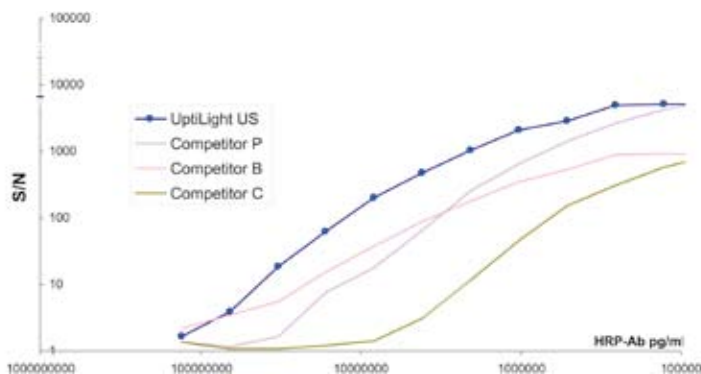
Increase 10 times the net signal of your usual luminol reagent, for ultra-sensitive HRP based immunoassays.

- ▶ **High signal with minimal background**
- ▶ Sensitivity in the **pico and femto range**
- ▶ Signal **stable up to 1 hour**
- ▶ Great for HTS applications
- ▶ Reagent stable >18 months at 4°C
- ▶ Easy to use : mix, incubate 5 min, read

Interchim provides a new chemiluminescent substrate for ELISA techniques, that improves significantly the sensitivity of detection, as well the stability and reproducibility -some crucial points in screening experiments. Not only signal is at equal or higher to your usual reagent, but the background is lower. As a result, UptiLight ELISA substrate achieves unsurpassed Signal to Noise (S/N) ratios.

Technical tip

The luminol was introduced as a convenient and effective chemiluminescent substrate, overcoming the performances (and first, the sensitivity) of classical insoluble chromogenic substrates (incl. OPD, TMB, DAB). The principle consists of the generation of light by the by-products of the chemical reaction from peroxidase upon the substrate. The emission of glow is then recorded by luminometer at 425 nm (in tubes, or in wells of ELISA microplates). The use of luminescent substrates is most recommended for quantitative assays requiring extended dynamic range of detection or qualitative assays requiring the best achievable detection limit (highest sensitivity).



Sensitivity comparison with UptiLight and competitors

Signal to noise in ELISA with UptiLight US ELISA HRP (#996201) compared with competitors PEF, BEF, AEA, and PBP. ELISA was performed with coated Mouse IgG detected by anti Mouse IgG(H+L) - HRP (#UP446330), then the ECL Luminescent substrates, prepared according their respective supplier. Luminescence was recorded with Mithras (Berthold Technologies) with 0,1 sec integration time, after a 5 min preincubation period. Datas are plotted as Signal to Noise ratios (S/N) for each tested HRP Ab concentration. Reduced background and higher sensitivity was found with UptiLight reagent.

Photostability of light emission with UptiLight US Luminescence was recorded with 0,1 sec integration time after a 1, 5, 10 or 30 min preincubation period.

Description	P/N :	Qty
UptiLight ELISA HRP UltraSensitivity Chemiluminescent Substrate.	996201	60 ml
	996202	120 ml
	996203	300 ml

Also available :

UptiLight ELISA HRP HighSensitivity Chemiluminescent Substrate. **36349A** 200 ml

A cost effective reagent for routine analysis, when only pico mole detection is required.

See also chemiluminescent kits for Assay #JQ6760 page 18.

■ Luminometric Alkaline Phosphatase Assay Kit

Alkaline Phosphatase Assay Kit uses a proprietary luminogenic phosphatase substrate, to quantify alkaline phosphatase activity immobilized on surfaces, i.e. ELISA, as well as in solutions (i.e. cell extracts, live cells; see page 17). This proprietary phosphatase substrate generates a luminescent product (Em (nm) 560 nm) that produces strong luminescence upon interaction with phosphatase. The kit provides all the essential components with our optimized 'mix and read' assay protocol that is compatible with HTS liquid handling instruments. It has extremely high sensitivity, and can be used for the assays that require demanding sensitivity.

Description	P/N :	Qty
Chemiluminescent AP assay kit	JQ6760	100 tests
See description in enzyme detection/Alkaline Phosphatase section, page 18.		

Related products :

Selected HRP labeled secondary antibodies (anti Igs)

Host *	Specificity	Biotin labeled	Qty	HRP labeled	Qty
*Anti Human antibodies					
Gt IgG	Anti-Human IgG , min X Bov, Hrs, Ms sr prot.	UP892650	0.5 mg	UP783493	1 mg
Gt IgG	Anti-Human IgG, Fc fragment specific, min X Bov, Hrs, Ms sr prot.	722640	1 mg	802020	1 ml
Ms Mab	Anti-Human Kappa Light Chain	UPB91830	0.5 mg	UPB91850	0.5 mg
Rt Mab	Anti-Human Lambda Light Chain	UPB91870	0.5 mg	UPB91890	0.5 mg
Rt Mab	Anti-Human IgG Gamma Chain	UPB92190	0.5 mg	UPB92210	0.5 mg
Rt Mab	Anti-Human IgM Mu Chain	UPB91910	0.5 mg	UPB91930	0.5 mg
Rt Mab	Anti-Human IgD Delta Chain	UPB91990	0.5 mg	UPB92010	0.5 mg
Rt Mab	Anti-Human IgE Epsilon Chain	UPB92030	0.5 mg	UPB92050	0.5 mg
Rt Mab	Anti-Human IgAAlpha1&2 Chain	UPB92150	0.5 mg	UPB92170	0.5 mg
*Anti Mouse antibodies					
Dk IgG	Anti-Mouse IgG(H+L), min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Hu & Rb, Shp sr prot.	946220	0.5 ml	UP973171	0.5 mg
Gt IgG	Anti-Mouse IgG(H+L), min X Hu, Bov, Hrs, Rb, Sw sr prot.	668610	1.5 ml	UP215731	1 mg
Rb IgG	Anti-Mouse IgG(H+L), min X Hu sr prot.	794090	1 ml	794560	1 ml
Anti Rabbit antibodies					
Dk IgG	Anti-Rabbit IgG(H+L), minX Bov, Ck, Gt, GP, Sy Hms, Hrs, Hu & Ms, Rt, Shp sr prot.	UP944471	0.5 mg	338370	0.5 ml
Gt IgG	Anti-Rabbit IgG(H+L), min X Hu sr prot.	812230	1.5 ml	UP687714	1 mg
Gt IgG	Anti-Rabbit IgG(H+L), min X Ms, Rt sr prot.	UP668621	1 mg	UP669631	1 mg
*Anti Rat antibodies					
Gt IgG	Anti-Rat IgG(H+L)	740470	2 ml	UP399892	1 mg

Secondary antibodies are available with different preadsorptions, formats (Fab'2), raised in 6 hosts, and against 22 target Ig species. Please inquire.

HRP (strep)avidin reagents

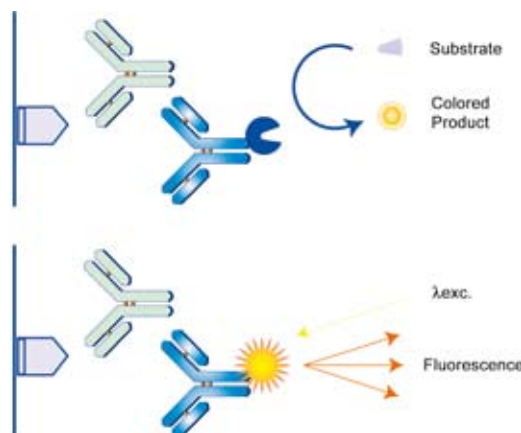
Description	P/N :	Qty
HRP labeled Streptavidin	UP395888	1 mg
HRP labeled Avidin	35445A	2 mg
HRP labeled Neutralized Avidin	UP36570A	1 mg

Other Colorimetric & Fluorimetric Enzymatic Substrates for Microplates assays

Peroxidase (HRP) and Alkaline phosphatase (AP) enzymatique labels are widely used in various biological assays including ELISAs, as well as in immunohistochemical techniques and Western blot analyses.

Following are effective ready to use substrates for colorimetric and fluorometric detections in EIA.

Following is a selection of conventional and unique formulations of standard enzymatic substrates to fulfill the requirements of your microplates assays. Below are research catalog quantities, please as for HTS and bulk needs.





■ Uptima TMB chromogenic substrate for HRP ELISA

Solutions are optimized chromogenic substrates for peroxidase, designed for ELISA techniques, manual or automatic systems. They contain 3,3',5,5'-tetramethylbenzidine (TMB), hydrogen peroxide (H₂O₂), and proprietary catalyzing and stabilizing agents.

- ▶ Highest sensitivity
- ▶ Reproducible lots
- ▶ Ready-to-use

Description	P/N :	Qty
TMB, "Standard" solution	UP664780	200 ml
The original formulation, ideal for classic applications	UP664781	500 ml
- Highest sensitivity	UP664782	1 L
- Stability > 24 months at +4°C		
TMB, "Check" solution	UPS08170	100 ml
Recommended for routine assays, to better control failure in reagent distribution.	UPS08171	500 ml
Includes a red dye that do not interfere with reaction nor final reading. High sensitivity ; Stability > 1 year at +4°C		
TMB, "Aqueous" solution	UPS08180	100 ml
Recommended in particular for diagnostic kits	UPS08181	200 ml
Non-hazardous, non-volatile, non-organic, non-toxic	UPS08182	500 ml
(does not contain DMF, DMSO)	UPS08183	1 L
100% water based formulation to maximize the safety (no regulation concerns). Highest sensitivity ; Stability > 1 year at +4°C.		

■ ADHP HRP ELISA Assay Kit

ADHP provides higher sensitivity in ELISA than chromogenic substrates. The kit provides the substrate and the stabilized Peroxide buffer in ready-to-use convenient format for HTS applications. The fluorescent signal is read at 590 nm ($\lambda_{exc} \backslash \lambda_{em} = 530-571 / 590-600$ nm) and achieves down femtomolar detection sensitivity. It provides the reagents to perform 500 ELISA assays in a 96-well format. The protocol can readily be modified to run assays in a 384-well format.

Description	P/N :	Qty
ADHP HRP ELISA assay kit – ADHP based	HS6241	500 tests
Contains ADHP substrate and Peroxide Assay buffer (50 ml)		

■ Fluorimetric AP ELISA Assay kits

See assay kits #JQ6730 (Blue-MUP), #JQ6740 Green - Red) in section "Apoptosis" page 17.

■ Substrates for horseradish peroxidase

HRP substrates	P/N : ^(a)	Qty	Format ^(c)	Type ^(b)	Comment
OPD tablets of 15 mg	270861	50 tabs	Tabs	Chromo.	Each tab contains 15 mg of OPD for quick and easy preparation of substrate solution
OPD, Ultrapure powder CAS: [95-54-5] ; MW : 108.1	02673F 02673G	25 g 50 g	Pow.	Chromo.	(o-Phenylene DiAmine)
ABTS, Liquid substrate	UP732550	100 ml	Soln	Chromo.	Ready-to-use solution
ABTS tablets	42387C	50 tablets	Tabs	Chromo.	Each tab contains 10 mg of ABTS for quick and easy preparation of substrate solution.
ABTS, Ultra pure grade CAS : [30931-67-0] ; MW : 548.7	UP423876 UP423877	1 g 10 g	Pow.	Chromo.	
TMB solution for ELISA	UP66478		Soln	Chromo.	Highest sensitivity. See description page 64.
TMB, Ultrapure powder CAS : [64285-73-0] ; MW : 331.3	UP15426D UP15426E	1 g 5 g	Pow.	Chromo.	(tetramethylBenzidine)
DAB solution (50X)	UP732320	500 ml	Soln	Chromo.	Ready-to-use solution less toxic for manipulation Supplied as a 50x concentrate with a 10x dilution buffer.
DAB tablets of 5 mg	UP732310	50 tabs	Tabs	Chromo.	Each tab contains 5 mg of DAB for quick and easy preparation of substrate solution
DAB, Ultrapure powder CAS : [868272-85-9] ; MW : 360.1	UP01012G UP01012H	5 g 10 g	Pow.	Chromo.	(3,3'-DiAminoBenzidine)
ADHP HRP Assay Kit.	HS6241	500 tests	Kit	Fluo.	Page 64.
ADHP, Pure Grade powder CAS : [119171-73-2] ; MW : 257.2	FP-39423A FP-39423B	5 mg 25 mg	Pow.	Fluo.	Highly and stable fluorogenic substrate $\lambda_{abs}/\lambda_{em}$: 563/587 nm (10-Acetyl-3,7-Dihydroxyphenoxazine)
Resorufin, Pure Grade CAS:[635-78-9]; MW : 213.04	FP-95432B	100 mg	Pow.	Fluo	
Luminol, Pure Grade powder CAS : [521-31-3] ; MW : 177.2	FP-57578A		Pow.	Lum.	$\lambda_{abs}/\lambda_{em}$: 355/413 nm ; EC : 7650 l/mol x cm
Luminol, Na salt CAS : [20666-12-0] ; MW : 199.1	FP-CA9611	2.5 g	Pow.	Lum.	See also UptiLight page 62.

^(a) all products are available as bulk formats. Please inquire. ^(b)Chromo. : Chromogenic ; Fluo. : Fluorogenic ; Lum. : Lumigenic

^(c)Pow. : powder ; Soln : Solution mono-component or bi-component (2 Soln) See also substrates for reporter assays (B-galactosidase,...) page 16.

■ Substrates for Alkaline Phosphate

HRP substrates	P/N : ^(a)	Qty	Format ^(c)	Type ^(b)	Comment
pNPP ELISA solution	BP7080	500 tests	Kit		Contains Assay buffer, wash buffer, stop solution and AP II Ab.
pNPP tabs of 30 mg	UP732500 UP732501	100 tabs 1000 tabs	Tabs	Chromo	Each tablet contains 30 mg of pNPP for quick and easy preparation of substrate solution.
pNPP tabs of 5 mg	UP89562G UP89562F	100 tabs 1000 tabs	Tabs	Chromo	Each tablet contains 5 mg of pNPP for quick and easy preparation of substrate solution.
pNPP, Ultrapure powder CAS : [4264-83-9] ; MW : 301.3	UP89562C UP89562D	25 g 100 g	Pow.	Chromo.	(p-NitroPhenylPhosphate).
MUP Na salt, Ultra Pure grade CAS : [22919-26-2] ; MW : 277.1	FP-30045A FP-30045B FP-30045C FP-30045D	100 mg 500 mg 5 g 10 g	Pow.	Fluo.	(MethylUmbelliferyl Phosphate). Used for detecting phosphatases in solution. Maximum fluorescence at pH value of >10.
MUP Plus, Na salt	FP-JQ6710	25 mg	Pow.	Fluo.	Maximum fluorescence above pH 7.0, for continuous assays. Also used for the assays that require acidic pH such as acid phosphatases. See description page 18.
MUP Free acid CAS : [3368-04-5] ; MW : 256.1	FP-24119A	100 mg	Pow	Fluo	See also MUP based AP assay kit #JQ6730 page 17.
FDP CAS : [217305-49-2] ; MW : 560.4	FP-72573A	5 mg	Pow.	Fluo.	(Fluorescein DiPhosphate). See also FDP based AP assay #JQ6740 page 17.
FDP ELISA kit	HT0790	1000 tests	Kit	Fluo.	Contains Assay buffer, wash buffer, stop solution and AP II Ab.

Fluorescent secondary reagents for ELISA (II Abs, Avidin)



Int

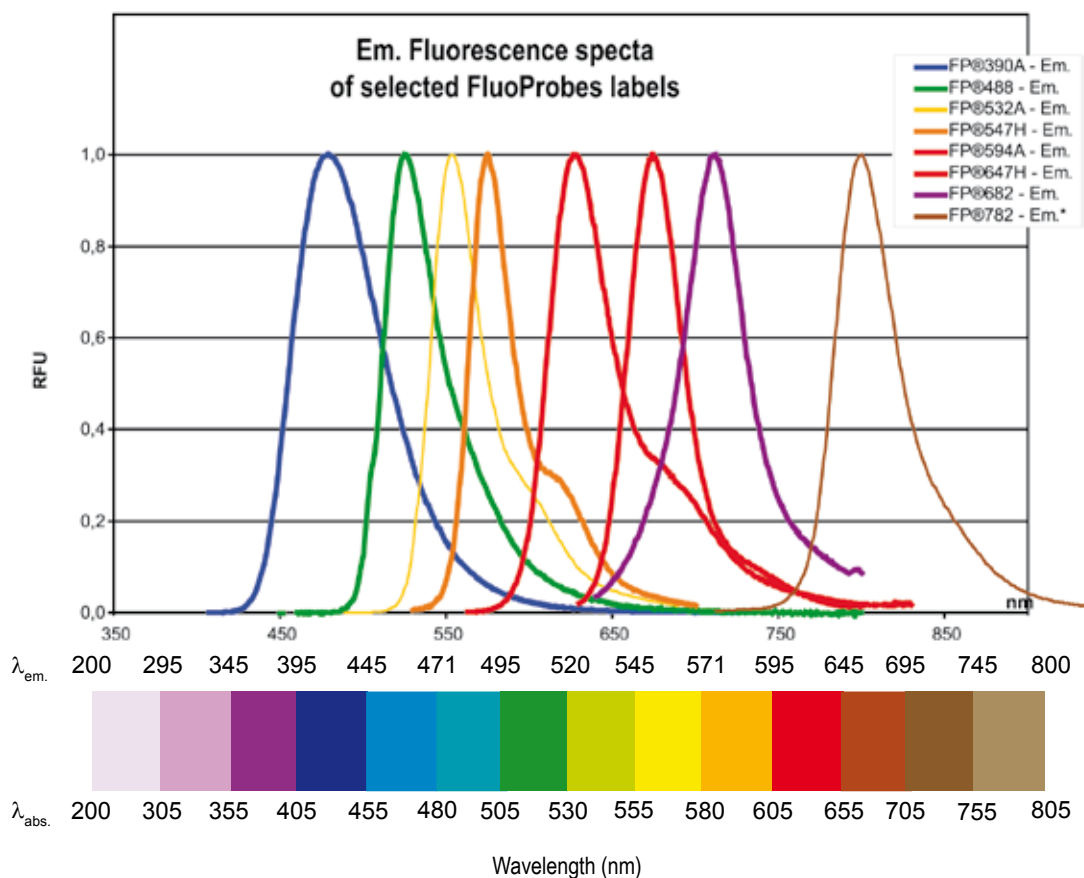
■ Streptavidin conjugates

Streptavidin conjugates are second step reagents for staining with biotinylated antibodies. Interchim covers a wide range of wavelengths. Here is a selection of great FluoProbes dyes, the FluoProbes 782, 682, 647H and R-PE being the most useful in microplates assays :

Description	$\lambda_{exc.}$ (nm)	$\lambda_{em.}$ (nm)	P/N :	Qty
FluoProbes® 782	783	800	FP-IS1810	1 mg
FluoProbes® 682	690	709	FP-BE8050	1 mg
FluoProbes® 647H	653	675	FP-CA5640	1 mg
FluoProbes® 594A	601	627	FP-CA5620	1 mg
FluoProbes® 565A	563	592	FP-CA5610	1 mg
R-Phycoerythrin	565	576	FP-77776A	1 mg
FluoProbes® 547H	557	572	FP-CA5570	1 mg
FluoProbes® 488	493	518	FP-BA2221	1 mg

Related products

Other labeled (strept)avidin conjugates are available from Interchim



For other wavelengths, please contact us or see in Interchim BioScience Innovations catalog.

See FluoProbes dyes descriptions page 67.

References :

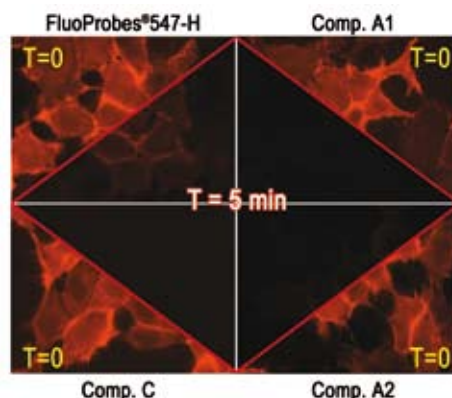
Rowell E. et al., Opposing Roles for the Cyclin-Dependent Kinase Inhibitor p27^{Kip1} in the Control of CD4⁺ T Cell Proliferation and Effector Function, The Journal of Immunology, 2005, 174: 3359-3368.

■ Secondary Antibodies conjugates

We are offering a range of high quality secondary antibodies conjugated with our fluorophores called FluoProbes. Showing superior fluorescence properties, these fluorophores are an excellent alternative to the conventional dyes such Cyanines and other dyes. Following are selected fluorophores compatible using common excitation sources and standard filters set such as FITC/Cy2, TRITC/Cy3, TR/Cy5, and InfraRed, .

Benefits of FluoProbes-antibody conjugates

- ▶ **High brightness** : FluoProbes® dyes show an enhanced fluorescence compared to other similar conjugates (very high Signal/Noise ratio)
- ▶ **High photostability** : Our FluoProbes dyes are more photostable than most other conjugates allowing longer reading/scanning.
- ▶ **Color choice** : FluoProbes® dyes range in color from green to infra-red.
- ▶ **Ready to use solution** : no dissolution step and risk of contamination.
- ▶ **High species-specificity** : The secondary antibodies were selected to have highest specificities. It is then possible to have very species-specific secondary antibodies conjugated with the best fluorochromes.



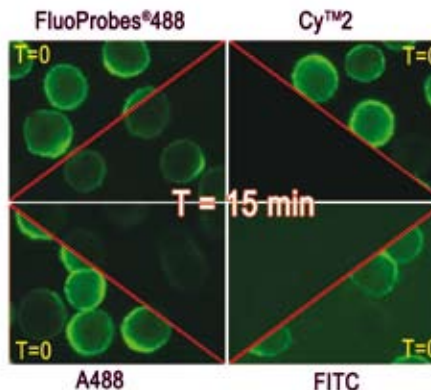
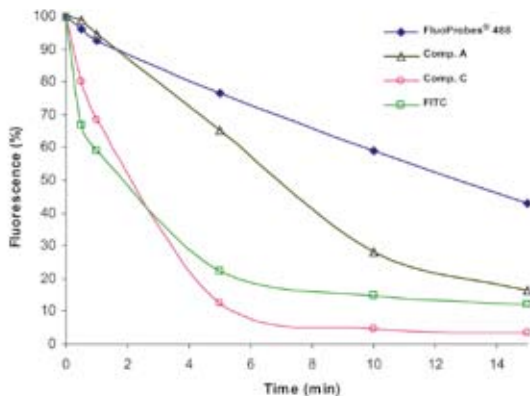
Description	$\lambda_{exc.}$ (nm)	$\lambda_{em.}$ (nm)	P/N :	Qty
Goat anti-Mouse IgG (H+L)				
- FluoProbes® 782	783	800	FP-BW7970	1 mg
- FluoProbes® 682	690	709	FP-BE7250	1 mg
- FluoProbes® 647H Min x Rat, Hu, Bov, Hrs, Rb sr Prot	653	675	FP-SC4000	1 mg
- FluoProbes® 547H Min x Rat, Hu, Bov, Hrs, Rb sr Prot	557	572	FP-SB4000	1 mg
- FluoProbes® 488 Min x Rat, Hu, Bov, Hrs, Rb sr Prot	493	518	FP-SA4000	1 mg
Goat anti-Rabbit IgG (H+L)				
- FluoProbes® 782	783	800	FP-BW7980	1 mg
- FluoProbes® 682	690	709	FP-BF1690	1 mg
- FluoProbes® 647H Min X Bov,Ck,Gt,GP,Hms,Hrs,Hu,Ms,Rat,Shp Sr Prot	653	675	FP-SC5000	1 mg
- FluoProbes® 547H Min X Bov,Ck,Gt,GP,Hms,Hrs,Hu,Ms,Rat,Shp Sr Prot	557	572	FP-SB5000	1 mg
- FluoProbes® 488 Min X Bov,Ck,Gt,GP,Hms,Hrs,Hu,Ms,Rat,Shp Sr Prot	493	518	FP-SA5000	1 mg

See all our secondary antibodies items in our catalog Biosciences Innovations.

Related products :

PrimAb™ : a large collection of primary antibodies. Search our web PrimAbs engine tool at <http://www.interchim.com/interchim/PrimAb/search.cfm>.

Research areas include : CellSignaling (ionic, cytokines, hormones), Apoptosis/cell cycle, DNA replications/transcription/Repair, post-translational modifications, Cell adhesion, Enzymes, Membrane study, Lipids, Metabolism, Angio/Histogenesis, Infectious agents, biomarkers for Cancer/Hypoxia, Cardiology, Neurosciences, Drug and resistance, Allergens.





■ Standard Buffers for Immunoassays

Description	P/N :	Qty
PBS powder pack (makes 10 L)	UP68723A	1 pack
TBS powder pack (makes 20 L)	UP74004A	1 pack
PBS (Tris Buffered Saline), 20X solution	N13761	1 L
PBS tablets (1 Tab.makes 100 ml of 1X solution)	307150	100 Tabs
PBS with Tween®, pH 7.5	N13810	500 ml
TBS (Tris Buffered Saline), 20X solution	N14580	4 L
TBS tablets (1 Tab.=100 ml of 1X solution)	GS3660	100 Tabs

■ Ready to use Buffers for Immunoassays

These powered blends save your time and are high proteomics grade for optimal results in immunodetections.

Description	P/N :	Qty
TBS with Non-Fat Powdered Milk 3%	GS4160	5 pk (42 g/1 L)
TBS with BSA 1%	GS4170	5 pk (22 g/1 L)
TBS with Tween® 0.05%	GS4200	5 pk (12.5 g/1 L)
PBS with Non-Fat Powdered Milk 3%	GS4180	5 pk (39.8 g/1 L)
PBS with BSA 1%	GS4190	5 pk (19.8 g/1 L)
PBS with Tween® 0.05%	GS4250	5 pk (10.4 g/1 L)
Antibody Diluent (Ready to Use)	HH6690	125 ml

Ab diluted in this solution can be stored for up to 18 months at +4°C.

■ SeaBlock saturating agent (non mammalian serum)

- ▶ Non-mammalian nature prevents interactions with immunoreagents (i.e. mammalian antibodies)
- ▶ Lower background
- ▶ Excellent to saturate high binding surfaces, and Glutaraldehyde activated Amine polystyrene (when BSA, casein and other agents are good but not excellent or even poor blockers).

Description	P/N :	Qty
SeaBlock (standard, excels as a blocker in ELISA)	UP40301A	500 ml
SeaBlock, serum free in PBS	UPAP1370	500 ml
SeaBlock, serum free in TBS	UPAP1380	500 ml

■ Other saturating agents and Buffers components

Description	P/N :	Qty
BSA powder	UPQ84170	100 g
Our standard grade and economic BSA, ubiquitous for most biotechnologies, including immuno-saturations.	UPQ84171	500 g
	UPQ84170	1 kg
BSA 30% solution	UP900100	50 ml
Using this solution, forget the hassle of weighting and dissolving BSA powder (no aggregates !). Save time and money !	UP900101	500 ml
Polymerised BSA, 30% solution	BJ1440	50 ml
Polymerised BSA improve several detection systems		
BioBlock membrane blocking agent (in PBS)	N13660	1 L
An economic standard blocker based on casein, optimized for positively charged nylon or PVDF membranes in nucleic acid or protein blotting applications.	N13650	1 L (in TBS)
Non-fat Milk	768701	500 g
A popular bloquer		
Gelatin	N13360	100 g
CAS [9000-70-8]; Bloom number : 240-270 ; pH(28°C) : 4.5-5.5 ; Water (KF) : <12%; Viscosity : 35-45mpa	N13361	500 g
Prionex®, 10% sterile solution	901770	100 ml
BSA alternative, strongly reduces unspecific binding of protein to plastic microplate walls		
Tween® 20, pure	15874A	1 L
Tween® 20, 20% solution, oxidant free	UP158740	5 x 10 ml

Note : a full range of other grades of BSA and other albumins are also available.

For direct conjugation of primary antibodies or your biomolecules of interest, Interchim provides a large range of biotinylation and fluorescent agents as well complete kits with desalting tools.

For general use, we recommend to use NHS-, Maleimide, or Hydrazide-activated reagents.

Also, complete biotinylation kits are proposed for non experienced investigators, as well as for convenient labeling (spin format) while avoiding to buy separate reagents.

■ Microspin biotinylation labeling kits-NH₂ and -SH

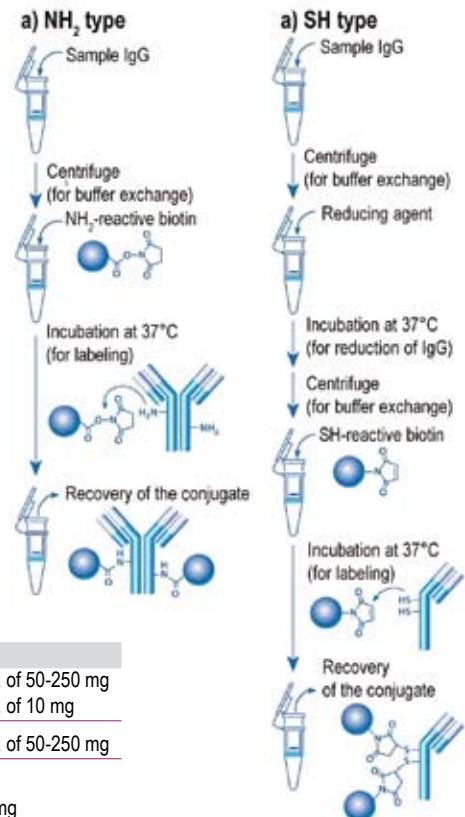
Efficient and convenient biotinylation reagent

- ▶ Quick : only 1 hour (/NH₂) or 3 hours (/SH) to get conjugates
- ▶ Easy : all processes in a single filtration tube
- ▶ Reliable : high recovery of conjugates, even for 500 µg of IgG !

Biotin Labeling Kits are primarily used for the preparation of biotin-labeled IgG for immunoassays. We offer kits with a very convenient format : spin filters where reaction and washes take place, that are available with 2 coupling strategies, and for 2 sample sizes (50-200 µg IgG, or ca 1 mg).

The kit BG767 biotinylates on amines, the most standard strategy. It uses a succinimidyl ester activated biotin, and contains all necessary reagents for labeling 3 samples of IgG antibody (10 µg to 200 µg). It can also be used to biotinylate any protein greater than MW 50 000 Da. The labeling process is simple. Just add the NH₂-reactive biotin to IgG solution on a filter membrane, and incubate at 37 °C for 10 min. On the average, 5 to 8 biotin molecules conjugate to each IgG molecule. Exceeding biotin molecules can be removed using a Filtration tubes included in this kit.

The kit BT3591 biotinylates on sulfhydryls to obtain oriented and defined biotinylation. It uses a maleimide-activated biotin. Features are similar to kit BG7670, except 1/there is an additional step to create a free sulphydryl in those protein (IgG) that do not have one, without loss of affinity ; 2/maleimide incubation occurs at 37 °C for 30 min.



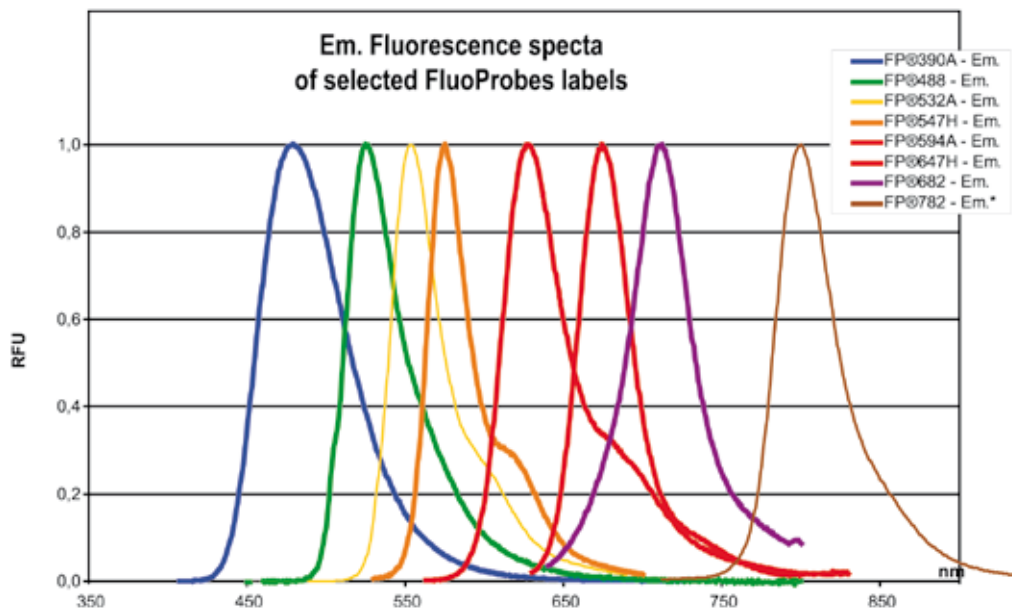
Description	P/N :	Qty
Biotinylation kit-NH ₂ reactive	BG7671	3 lab. of 50-250 mg
	BG7671	1 lab. of 10 mg
Biotinylation kit-SH reactive	BT3591	3 lab. of 50-250 mg
Also available : biotinylation agents as stand alone		
sulfoNHS-Ic-Biotin	UP54398A	100 mg
NHS-PEO ₄ -Biotin	UPR20279A	50 mg
PEO spacer confers hydrophilicity allowing to reach higher couplig ratio and to yield more bioactive and stable conjugates. It is also available with extended spacer length (PEO12).		
NHS-SS-Biotin cleavable spacer	UPS073A	100 mg



■ FluoProbes® Protein Labeling Kits

Easy antibody direct conjugation with the brilliant and photostable FluoProbes dyes !

FluoProbes® labeling kits are designed for the easy-to-use and efficient labeling of protein with molecular weights greater than 25 kD, including especially antibodies. They use a succinimidyl ester of fluorescent labels that form a covalent stable linkage. Up 100µg to 1.5 mg of protein (IgG) can be labeled in a 1h30 procedure. They are available with many of our FluoProbes® labels. Following is a list of selected and popular ones (others on inquire).



Description	$\lambda_{exc.}$ (nm)	$\lambda_{em.}$ (nm)	P/N :	Qty
FluoProbes® 782	783	800	FP-CA6070	1 kit (5 labelings)
FluoProbes® 682	690	709	FP-BE8280	1 kit (5 labelings)
FluoProbes® 647H	653	675	FP-BZ9610	1 kit (5 labelings)
FluoProbes® 547H	557	572	FP-BZ9600	1 kit (5 labelings)
FluoProbes® 488	493	518	FP-BE3750	1 kit (5 labelings)

For other wavelengths, please contact us or see in Interchim BioScience Innovations catalog.

See FluoProbes dyes descriptions page 67.

